

Release notes for ENDF/B Development n-095\_Am\_244m1  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=9553, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=9553, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      151 TO      227
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=9553, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=9553, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      151
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 1, MT=452 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9553, MF= 1, MT=452
SECTION 1/452 NOT IN DIRECTORY      RECORD NUMBER      228
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 1, MT=455 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9553, MF= 1, MT=455
SECTION 1/455 NOT IN DIRECTORY      RECORD NUMBER      234
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 1, MT=456 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9553, MF= 1, MT=456
SECTION 1/456 NOT IN DIRECTORY      RECORD NUMBER      242
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 1, MT=458 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9553, MF= 1, MT=458
SECTION 1/458 NOT IN DIRECTORY      RECORD NUMBER      247
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=9553, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      260
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 1 (0): Directory (b)*

- |  |               |     |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 1 | RECORD NUMBER | 266 |
| SECTION 3/ 1 NOT IN DIRECTORY            |               |     |
8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 2 (0): Directory (b)*
- |  |               |     |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 2 | RECORD NUMBER | 341 |
| SECTION 3/ 2 NOT IN DIRECTORY            |               |     |
9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 4 (0): Directory (b)*
- |  |               |     |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 4 | RECORD NUMBER | 371 |
| SECTION 3/ 4 NOT IN DIRECTORY            |               |     |
10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 16 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 16 | RECORD NUMBER | 399 |
| SECTION 3/ 16 NOT IN DIRECTORY            |               |     |
11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 17 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 17 | RECORD NUMBER | 409 |
| SECTION 3/ 17 NOT IN DIRECTORY            |               |     |
12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 18 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 18 | RECORD NUMBER | 417 |
| SECTION 3/ 18 NOT IN DIRECTORY            |               |     |
13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 37 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 37 | RECORD NUMBER | 481 |
| SECTION 3/ 37 NOT IN DIRECTORY            |               |     |
14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 51 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 51 | RECORD NUMBER | 487 |
| SECTION 3/ 51 NOT IN DIRECTORY            |               |     |
15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 52 (0): Directory (b)*

- |   |                   |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 52 |                   |
| SECTION 3/ 52 NOT IN DIRECTORY            | RECORD NUMBER 515 |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 53 (0): Directory (b)*
- |   |                   |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 53 |                   |
| SECTION 3/ 53 NOT IN DIRECTORY            | RECORD NUMBER 542 |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 54 (0): Directory (b)*
- |   |                   |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 54 |                   |
| SECTION 3/ 54 NOT IN DIRECTORY            | RECORD NUMBER 567 |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 55 (0): Directory (b)*
- |   |                   |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 55 |                   |
| SECTION 3/ 55 NOT IN DIRECTORY            | RECORD NUMBER 591 |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 56 (0): Directory (b)*
- |   |                   |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 56 |                   |
| SECTION 3/ 56 NOT IN DIRECTORY            | RECORD NUMBER 615 |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 57 (0): Directory (b)*
- |   |                   |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 57 |                   |
| SECTION 3/ 57 NOT IN DIRECTORY            | RECORD NUMBER 638 |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 58 (0): Directory (b)*
- |   |                   |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 58 |                   |
| SECTION 3/ 58 NOT IN DIRECTORY            | RECORD NUMBER 661 |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 59 (0): Directory (b)*
- |   |                   |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 59 |                   |
| SECTION 3/ 59 NOT IN DIRECTORY            | RECORD NUMBER 683 |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 60 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 60 | RECORD NUMBER | 705 |
| SECTION 3/ 60 NOT IN DIRECTORY            |               |     |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 61 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 61 | RECORD NUMBER | 726 |
| SECTION 3/ 61 NOT IN DIRECTORY            |               |     |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 62 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 62 | RECORD NUMBER | 747 |
| SECTION 3/ 62 NOT IN DIRECTORY            |               |     |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 63 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 63 | RECORD NUMBER | 767 |
| SECTION 3/ 63 NOT IN DIRECTORY            |               |     |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 64 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 64 | RECORD NUMBER | 787 |
| SECTION 3/ 64 NOT IN DIRECTORY            |               |     |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 65 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 65 | RECORD NUMBER | 806 |
| SECTION 3/ 65 NOT IN DIRECTORY            |               |     |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 66 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 66 | RECORD NUMBER | 825 |
| SECTION 3/ 66 NOT IN DIRECTORY            |               |     |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 67 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 67 | RECORD NUMBER | 844 |
| SECTION 3/ 67 NOT IN DIRECTORY            |               |     |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 68 (0): Directory (b)*

- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 68 |               |     |
|  | SECTION 3/ 68 NOT IN DIRECTORY            | RECORD NUMBER | 862 |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 69 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 69 |               |     |
|  | SECTION 3/ 69 NOT IN DIRECTORY            | RECORD NUMBER | 880 |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 70 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 70 |               |     |
|  | SECTION 3/ 70 NOT IN DIRECTORY            | RECORD NUMBER | 898 |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 71 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 71 |               |     |
|  | SECTION 3/ 71 NOT IN DIRECTORY            | RECORD NUMBER | 915 |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 72 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 72 |               |     |
|  | SECTION 3/ 72 NOT IN DIRECTORY            | RECORD NUMBER | 932 |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 73 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 73 |               |     |
|  | SECTION 3/ 73 NOT IN DIRECTORY            | RECORD NUMBER | 948 |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 74 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 74 |               |     |
|  | SECTION 3/ 74 NOT IN DIRECTORY            | RECORD NUMBER | 964 |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 75 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 75 |               |     |
|  | SECTION 3/ 75 NOT IN DIRECTORY            | RECORD NUMBER | 980 |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT= 91 (0): Directory (b)*

- |   |                   |
|---|-------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT= 91 |                   |
| SECTION 3/ 91 NOT IN DIRECTORY            | RECORD NUMBER 995 |
40. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 3, MT=102 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 3, MT=102 |                    |
| SECTION 3/102 NOT IN DIRECTORY            | RECORD NUMBER 1010 |
41. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 2 (0): Directory (b)*
- |  |                    |
|--|--------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 2 |                    |
| SECTION 4/ 2 NOT IN DIRECTORY            | RECORD NUMBER 1042 |
42. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 16 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 16 |                    |
| SECTION 4/ 16 NOT IN DIRECTORY            | RECORD NUMBER 1273 |
43. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 17 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 17 |                    |
| SECTION 4/ 17 NOT IN DIRECTORY            | RECORD NUMBER 1284 |
44. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 18 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 18 |                    |
| SECTION 4/ 18 NOT IN DIRECTORY            | RECORD NUMBER 1295 |
45. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 37 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 37 |                    |
| SECTION 4/ 37 NOT IN DIRECTORY            | RECORD NUMBER 1306 |
46. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 51 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 51 |                    |
| SECTION 4/ 51 NOT IN DIRECTORY            | RECORD NUMBER 1317 |
47. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 52 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 52 | RECORD NUMBER | 1348 |
| SECTION 4/ 52 NOT IN DIRECTORY            |               |      |
48. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 53 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 53 | RECORD NUMBER | 1377 |
| SECTION 4/ 53 NOT IN DIRECTORY            |               |      |
49. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 54 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 54 | RECORD NUMBER | 1406 |
| SECTION 4/ 54 NOT IN DIRECTORY            |               |      |
50. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 55 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 55 | RECORD NUMBER | 1435 |
| SECTION 4/ 55 NOT IN DIRECTORY            |               |      |
51. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 56 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 56 | RECORD NUMBER | 1464 |
| SECTION 4/ 56 NOT IN DIRECTORY            |               |      |
52. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 57 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 57 | RECORD NUMBER | 1493 |
| SECTION 4/ 57 NOT IN DIRECTORY            |               |      |
53. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 58 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 58 | RECORD NUMBER | 1522 |
| SECTION 4/ 58 NOT IN DIRECTORY            |               |      |
54. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 59 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 59 | RECORD NUMBER | 1551 |
| SECTION 4/ 59 NOT IN DIRECTORY            |               |      |
55. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 60 (0): Directory (b)*



- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 60 | RECORD NUMBER | 1580 |
| SECTION 4/ 60 NOT IN DIRECTORY            |               |      |
56. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 61 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 61 | RECORD NUMBER | 1609 |
| SECTION 4/ 61 NOT IN DIRECTORY            |               |      |
57. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 62 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 62 | RECORD NUMBER | 1638 |
| SECTION 4/ 62 NOT IN DIRECTORY            |               |      |
58. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 63 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 63 | RECORD NUMBER | 1667 |
| SECTION 4/ 63 NOT IN DIRECTORY            |               |      |
59. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 64 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 64 | RECORD NUMBER | 1696 |
| SECTION 4/ 64 NOT IN DIRECTORY            |               |      |
60. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 65 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 65 | RECORD NUMBER | 1725 |
| SECTION 4/ 65 NOT IN DIRECTORY            |               |      |
61. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 66 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 66 | RECORD NUMBER | 1754 |
| SECTION 4/ 66 NOT IN DIRECTORY            |               |      |
62. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 67 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 67 | RECORD NUMBER | 1783 |
| SECTION 4/ 67 NOT IN DIRECTORY            |               |      |
63. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 68 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 68 | RECORD NUMBER | 1812 |
| SECTION 4/ 68 NOT IN DIRECTORY            |               |      |
64. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 69 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 69 | RECORD NUMBER | 1841 |
| SECTION 4/ 69 NOT IN DIRECTORY            |               |      |
65. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 70 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 70 | RECORD NUMBER | 1870 |
| SECTION 4/ 70 NOT IN DIRECTORY            |               |      |
66. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 71 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 71 | RECORD NUMBER | 1899 |
| SECTION 4/ 71 NOT IN DIRECTORY            |               |      |
67. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 72 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 72 | RECORD NUMBER | 1928 |
| SECTION 4/ 72 NOT IN DIRECTORY            |               |      |
68. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 73 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 73 | RECORD NUMBER | 1957 |
| SECTION 4/ 73 NOT IN DIRECTORY            |               |      |
69. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 74 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 74 | RECORD NUMBER | 1986 |
| SECTION 4/ 74 NOT IN DIRECTORY            |               |      |
70. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 75 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 75 | RECORD NUMBER | 2015 |
| SECTION 4/ 75 NOT IN DIRECTORY            |               |      |
71. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 4, MT= 91 (0): Directory (b)*

ERROR(S) FOUND IN MAT=9553, MF= 4, MT= 91  
SECTION 4/ 91 NOT IN DIRECTORY RECORD NUMBER 2044

72. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 5, MT= 16 (0): Directory (b)*

ERROR(S) FOUND IN MAT=9553, MF= 5, MT= 16  
SECTION 5/ 16 NOT IN DIRECTORY RECORD NUMBER 2074

73. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 5, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=9553, MF= 5, MT= 17  
SECTION 5/ 17 NOT IN DIRECTORY RECORD NUMBER 2092

74. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 5, MT= 18 (0): Directory (b)*

ERROR(S) FOUND IN MAT=9553, MF= 5, MT= 18  
SECTION 5/ 18 NOT IN DIRECTORY RECORD NUMBER 2115

75. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 5, MT= 37 (0): Directory (b)*

ERROR(S) FOUND IN MAT=9553, MF= 5, MT= 37  
SECTION 5/ 37 NOT IN DIRECTORY RECORD NUMBER 2123

76. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=9553, MF= 5, MT= 91 (0): Directory (b)*

ERROR(S) FOUND IN MAT=9553, MF= 5, MT= 91  
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 2149

- fudge-4.0 Warnings:

1. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 0: total (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.23%

2. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 1: (z,n) (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.11%

- fudge-4.0 Errors:

1. ENDF format insists that all outgoing fission neutrons, delayed or otherwise, have spectra. For delayed neutrons this is tough.  
*Reading ENDF file: ../n-095-Am-244m1.endf (Error # 0): No delayed n dist*

WARNING: More than one delayed fission neutron decay time but no MF = 5 data

2. Found a negative probability  
*reaction label 0: n + Am244\_e1 / Product: n / Distribution: / angularTwoBody - XYs2d:*  
*(Error # 0): Negative prob.*

WARNING: Negative probabilities encountered. Incident energy: 1.9e7 eV, worst case: -0.000163887330739  
WARNING: Negative probabilities encountered. Incident energy: 2.e7 eV, worst case: -0.00208568586035

3. Calculated and tabulated Q values disagree.  
*reaction label 27: n[multiplicity:'2'] + Am243 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -5042795.754547119 eV vs -5363190. eV!

4. Calculated and tabulated Q values disagree.  
*reaction label 28: n[multiplicity:'3'] + Am242 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -11407689.67797852 eV vs -1.17275e7 eV!

5. Weights in a weighted sum don't sum up to one  
*reaction label 28: n[multiplicity:'3'] + Am242 / Product: n / Distribution: / uncorre-*  
*lated - energy - weightedFunctionals: (Error # 0): Bad weight sum*

WARNING: Weights don't sum to 1.0!

6. Calculated and tabulated Q values disagree.  
*reaction label 29: n[multiplicity:'4'] + Am241 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -16945329.32720947 eV vs -1.72687e7 eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 31: Am245 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 6376201.121276855 eV vs 6140990. eV!

• njoy2012 Warnings:

1. Evaluation has no resonance parameters given  
*unresr...calculation of unresolved resonance cross sections (0): No RR*

---message from unresr---mat 9553 has no resonance parameters  
copy as is to nout

2. There is a problem with the fission energy release.  
*heatr...prompt kerma (0): HEATR/nheat (3)*

---message from nheat---changed q from 2.045207E+08 to 1.941606E+08  
for mt 18

3. Evaluation has no resonance parameters given  
*purr...probabalistic unresolved calculation (0): No RR*

---message from purr---mat 9553 has no resonance parameters  
copy as is to nout

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)*

```
---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided
```

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)*

```
---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided
```

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)*

```
---message from conver---cannot do complete particle production for mt= 37
only mf4/mf5 provided
```

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)*

```
---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided
```

- njoy2012 Errors:

1. An angular distribution is negative  
*acer...monte carlo neutron and photon data (0): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
13 for mt= 2 e= 1.900E+07
```

2. An angular distribution is negative  
*acer...monte carlo neutron and photon data (1): Neg. P(Ejμ) (b)*

```
---message from ptleg2---negative probs found
41 for mt= 2 e= 2.000E+07
```

- accelst Warnings:

1. generic warning message  
*0: Warning*

ACELST WARNING - More than one range for MF/MT	6	16
ACELST WARNING - More than one range for MF/MT	6	17

2. generic warning message  
*1: Warning*

ACELST WARNING - More than one range for MF/MT	6	37
--	---	----

STOP ACELST Completed

• **xsectplotter** Errors:

1. ENDF format insists that all outgoing fission neutrons, delayed or otherwise, have spectra. For delayed neutrons this is tough.  
*(Error # 2): No delayed n dist*

WARNING: More than one delayed fission neutron decay time but no MF = 5 data